

USCMS Engineer Status Report for July 2004

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1 Work Performed This Month

The focus of this months activity was McRunjob development,

1. Shahkar integration, McRunjob was integrated with ShahKar, that required overall testing of all functionality. Specially the complicated functionality of Digi/DST job creation and Dataset Publication.

2. New macro-file structure, all macro-files were reproduced and changes were tested for all steps of Production. Including MOP ased GRID job.

3. I took exculsive responsibility for maintaining/developing the Dataset manipulation/publication component of McRunjob. That required taking over Digi/DST/DSTStream job creation and Dataset Publication, a major component of overall production-McRunjob machinery.

- a. Code was maintained b. Several bugs were fixed c. Several improvements were made, like using proper versions of POOL and COBRA. d. Code overall quality is improved, like removing unnecessary os/system calls. e. Componenets like LFNbyRunID, and resolve from cardfile, and PUSwitch issues were removed. f. Wrote whole "Publish related sections" of McRunjob user documentation, which is key fopr operations. g. New set of Publish-Context files were created, with better, easy to understand user macro-files, increasing understandibility of the functionality and easy maintenance. Before that Publih steps had complicated Macro files, were not using Context, and completely disconnect with main line McRunjob. h. The user-interaction with Publish steps is made to work with same configuration file(s) as are used fro normal production stuff. That makes means one-window-operation for the user.

Code tested, checked in and documentation verified to be useful and working.

MOPdb Deveklpment: The tool is almost ready for full scale testing, user proxy problem was esolved working with CLARENS team. Whopper configured to be used as McRunjob/MOP CLARENS based service host. More functionality, kill job(s) and kill job all is added.

Misc: Spent time of "pyLint" to "clean-up" ShahKar code. Spent time on integating ShREEK with MOP. Spent time on MCPS design issues.

2 Status of Deliverables

McRunjob newer version, with documentation, ready, with AL functionality working and tested, including the Digi/DST jobs and Publishing which is key component.

3 Plans For Next Month

EVDSERVICE replacement. McRunjob with XML structure, yet another version of McRunjob and ShahKar is in pipeline, that might need effort to make it work again for all components of production and with MOP.